INEOS LLDPE LL6910AA

Linear Low Density Polyethylene

INEOS Olefins & Polymers Europe

Message:

LL6910AA is particularly suitable for use in lean and rich blend blown film applications, such as overwrap, counter bags, shrink film (lean blends, 10 to 30% LLDPE) and boil-in-the-bag applications. This grade is also recommended for artificial grass applications.

LL6910AA is a linear low density polyethylene copolymer containing hexene-1 as the comonomer. It offers the following properties:

Very high stiffness and downgauging potential

Good optical properties

High temperature resistance

High water vapour barrier properties

High creep resistance

Excellent sealability and hot-tack strength

For shrink film, higher shrink holding force and improved burn-through resistance

If corona treatment is necessary, the level should normally be in the range 38-48 mN/m.

We recommend that you consult your INEOS O&P Europe technical representative for further advice on the use of LL6910AA.

General Information			
Additive	Antioxidation		
Features	Rigidity, high		
	Copolymer		
	Optical		
	hexene comonomer		
	Antioxidation		
	Good creep resistance		
	Heat resistance, high		
Uses	Films		
	Bags		
	Mixing		
	Shrinkable film		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.936	g/cm³	ISO 1183/D
Melt Mass-Flow Rate (MFR) (190°C/2.16			
kg)	1.0	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	μm	
Tensile Modulus - 1% Secant (38 µm,	450		150 1104
BIOWN FIIM)	450	IVIPa	150 1 184
I ensile Stress			150 527-3

MD: Yield, 38 µm, blown film	18.0	MPa	ISO 527-3
TD: Yield, 38 µm, blown film	21.0	MPa	ISO 527-3
MD: 38 µm, blown film	54.0	MPa	ISO 527-3
TD: 38 µm, blown film	36.0	MPa	ISO 527-3
Tensile Elongation			ISO 1184
MD: Broken, 38 µm, blown film	780	%	ISO 1184
TD: Broken, 38 µm, blown film	990	%	ISO 1184
Dart Drop Impact (38 µm, Blown Film)	65	g	ASTM D1709A
Elmendorf Tear Strength ¹			ASTM D1922
MD : 38.0 µm	13.7	kN/m	ASTM D1922
TD : 38.0 μm	127.5	kN/m	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	121	°C	ISO 306/A50
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.0 μm, Blown Film)	50		ASTM D2457
Haze (38.0 µm, Blown Film)			
	13	%	ASTM D1003
Additional Information	13	%	ASTM D1003
Additional Information Film properties taken from 38 µm film, 2:1 bl	13 ow up ratio, 230°C melt temperature.	%	ASTM D1003
Additional Information Film properties taken from 38 µm film, 2:1 bl Extrusion	13 ow up ratio, 230°C melt temperature. Nominal Value	% Unit	ASTM D1003
Additional Information Film properties taken from 38 µm film, 2:1 bl Extrusion Melt Temperature	13 ow up ratio, 230°C melt temperature. Nominal Value 180 - 230	% Unit °C	ASTM D1003
Additional Information Film properties taken from 38 µm film, 2:1 bl Extrusion Melt Temperature NOTE	13 ow up ratio, 230°C melt temperature. Nominal Value 180 - 230	% Unit °C	ASTM D1003

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